**Pre-Calculus**

* 1. **Notes**

**Day 11**

1. **Introduction**

**Ex. 1:** page 87

1. **Direct variation**

Review:

* y = mx + b (linear equation)
* y = x (identity)
* Now consider y = kx (linear equation whose y-int is (0, 0)
* y varies directly as x
* k is constant of proportionality

**Ex. 2:** page 88

1. **Direct variation as an nth power**

* y = kxn → y varies directly as the nth power of x

**Ex. 3:** page 89

1. **Inverse variations**

* y = → y varies inversely as x

**Ex. 4:** page 90

1. **Joint variation**

* z = kxy → z varies jointly as x and y

**Ex. 5:** page 91

1. **Least squares regression and graphing calculators**

**Ex. 6:** read page 92